

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563509

Luminaire Tested: **SQ4-PP3-0U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563509
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

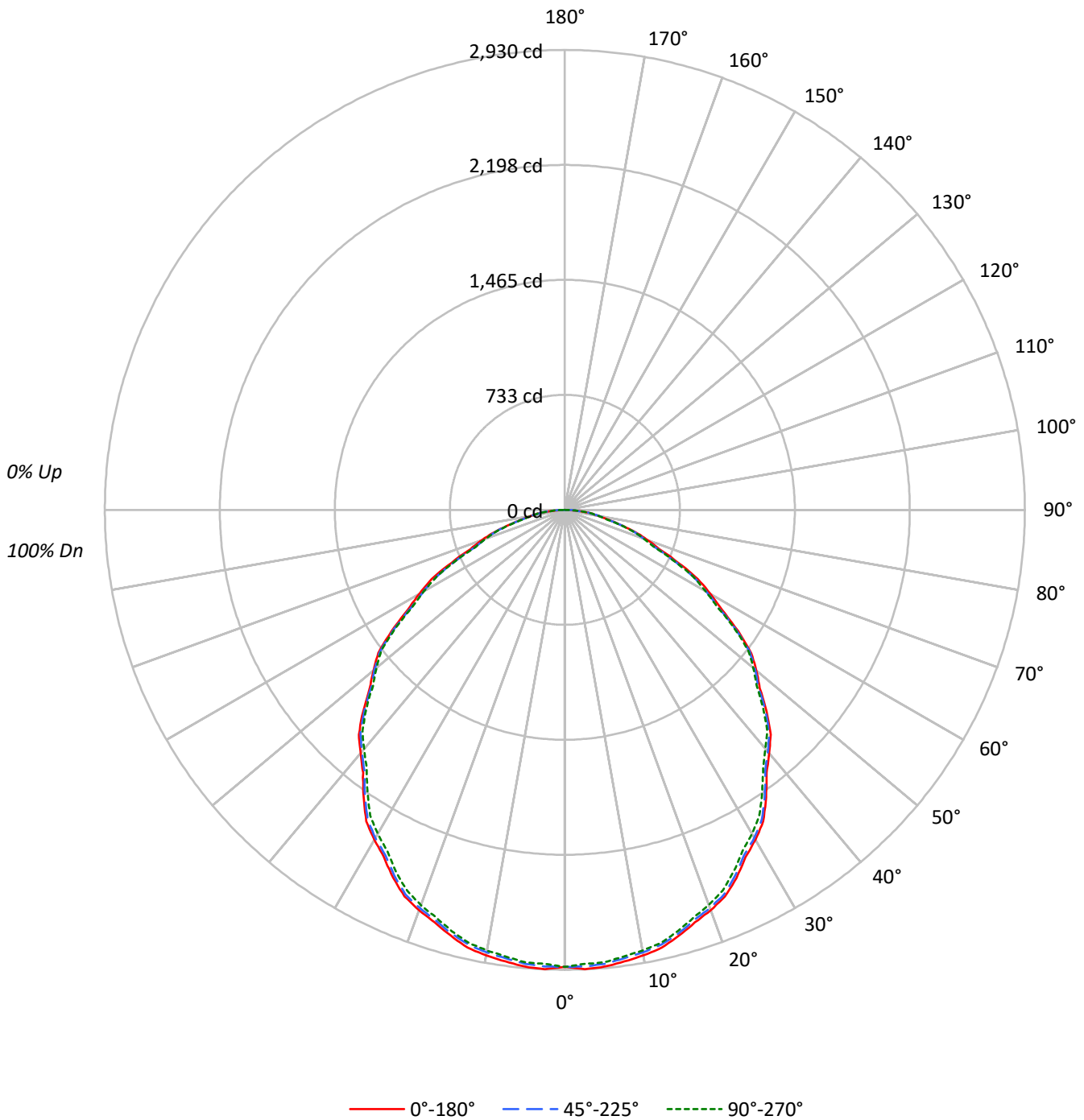
Lumens per Lamp: N/A
Luminaire Lumens: 7451.2 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P563509
CATALOG NUMBER: SQ4-PP3-0U-075D-940-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563509

CATALOG NUMBER: SQ4-PP3-OU-075D-940-1D-UNV-STD-W-12

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8391	8334	8228
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6388	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4305	4244	4184
80°	3795	3841	3751
85°	2971	3243	3243



TEST NUMBER: P563509

CATALOG NUMBER: SQ4-PP3-0U-075D-940-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	3.7
10°-20°	786.0	10.5
20°-30°	1177.4	15.8
30°-40°	1381.0	18.5
40°-50°	1385.3	18.6
50°-60°	1181.8	15.9
60°-70°	770.7	10.3
70°-80°	386.7	5.2
80°-90°	107.0	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2238.7	30.0
0°-40°	3619.7	48.6
0°-60°	6186.8	83.0
0°-90°	7451.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7451.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2922	2894	2904	2893	2893	277
15°	2809	2782	2794	2784	2779	793
25°	2587	2557	2569	2546	2544	1190
35°	2235	2213	2220	2194	2192	1396
45°	1817	1804	1804	1786	1786	1399
55°	1347	1342	1329	1322	1319	1197
65°	796	781	763	758	760	794
75°	362	362	357	355	352	393
85°	84	92	92	92	92	102
90°	0	0	0	0	0	



TEST NUMBER: P563509

CATALOG NUMBER: SQ4-PP3-0U-075D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2929.6	2905.7	2911.3	2906.9	2894.9
5°	2921.5	2894.0	2903.6	2893.4	2893.4
7.5°	2901.6	2871.6	2881.2	2870.9	2870.4
10°	2883.2	2853.3	2862.8	2852.5	2850.0
12.5°	2856.7	2826.7	2838.3	2826.0	2825.5
15°	2809.2	2781.8	2793.9	2783.6	2778.6
17.5°	2755.6	2725.7	2740.3	2726.0	2724.0
20°	2714.8	2684.9	2699.5	2679.1	2679.1
22.5°	2665.8	2635.9	2652.5	2626.0	2626.0
25°	2587.2	2557.3	2569.4	2546.3	2543.8
27.5°	2493.8	2464.4	2477.0	2451.0	2450.5
30°	2426.5	2399.0	2413.7	2385.6	2383.1
32.5°	2353.0	2327.5	2338.2	2310.1	2307.6
35°	2235.1	2212.7	2219.8	2194.2	2191.7
37.5°	2111.1	2088.2	2096.3	2074.3	2073.4
40°	2023.3	2008.4	2010.6	1992.6	1987.6
42.5°	1941.7	1924.7	1926.9	1909.0	1908.0
45°	1816.7	1804.2	1803.9	1786.1	1786.1
47.5°	1684.0	1674.5	1671.7	1656.9	1656.4
50°	1592.1	1584.7	1581.9	1569.1	1566.6
52.5°	1496.2	1492.7	1484.0	1473.2	1472.7
55°	1347.2	1342.2	1329.3	1321.6	1319.1
57.5°	1185.4	1175.4	1160.9	1149.8	1151.7
60°	1069.1	1059.1	1038.5	1033.4	1033.4
62.5°	956.8	944.8	924.2	917.1	921.1
65°	796.1	781.1	762.9	757.9	760.3
67.5°	650.1	636.7	617.0	616.9	614.9
70°	556.2	548.7	533.3	533.3	533.3
72.5°	472.5	469.0	457.7	457.7	455.7
75°	362.3	362.3	357.2	354.6	352.1
77.5°	271.5	272.5	269.9	267.3	262.8
80°	214.3	219.3	216.9	214.3	211.8
82.5°	161.3	166.2	165.8	161.2	160.7
85°	84.2	91.7	91.9	91.9	91.9
87.5°	22.5	30.4	32.7	32.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)